

TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT



UNIT 1 STATUS

Rockville, Md.
September 9, 2004





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Agenda



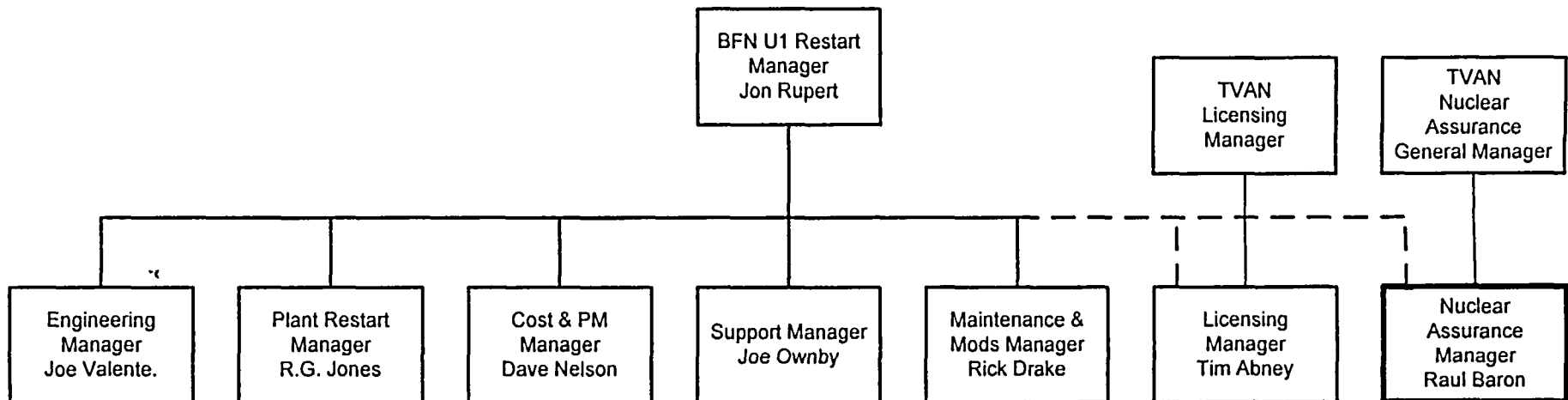
- Introduction J. Rupert
- Unit 1 Organizational Changes J. Rupert
- Regulatory Status T. Abney
- " Unit 1 Overview and Schedule J. Rupert
J. Valente
R. Drake
- Operations R.G. Jones
- Nuclear Assurance R. Baron
- Open Discussion



Introduction

- Welcome to the Fourth Periodic Status Meeting for the Unit 1 restart project
- Purpose
 - Status of project
 - Upcoming activities
 - Solicit feedback

Unit 1 Organizational Changes



Changes highlighted.

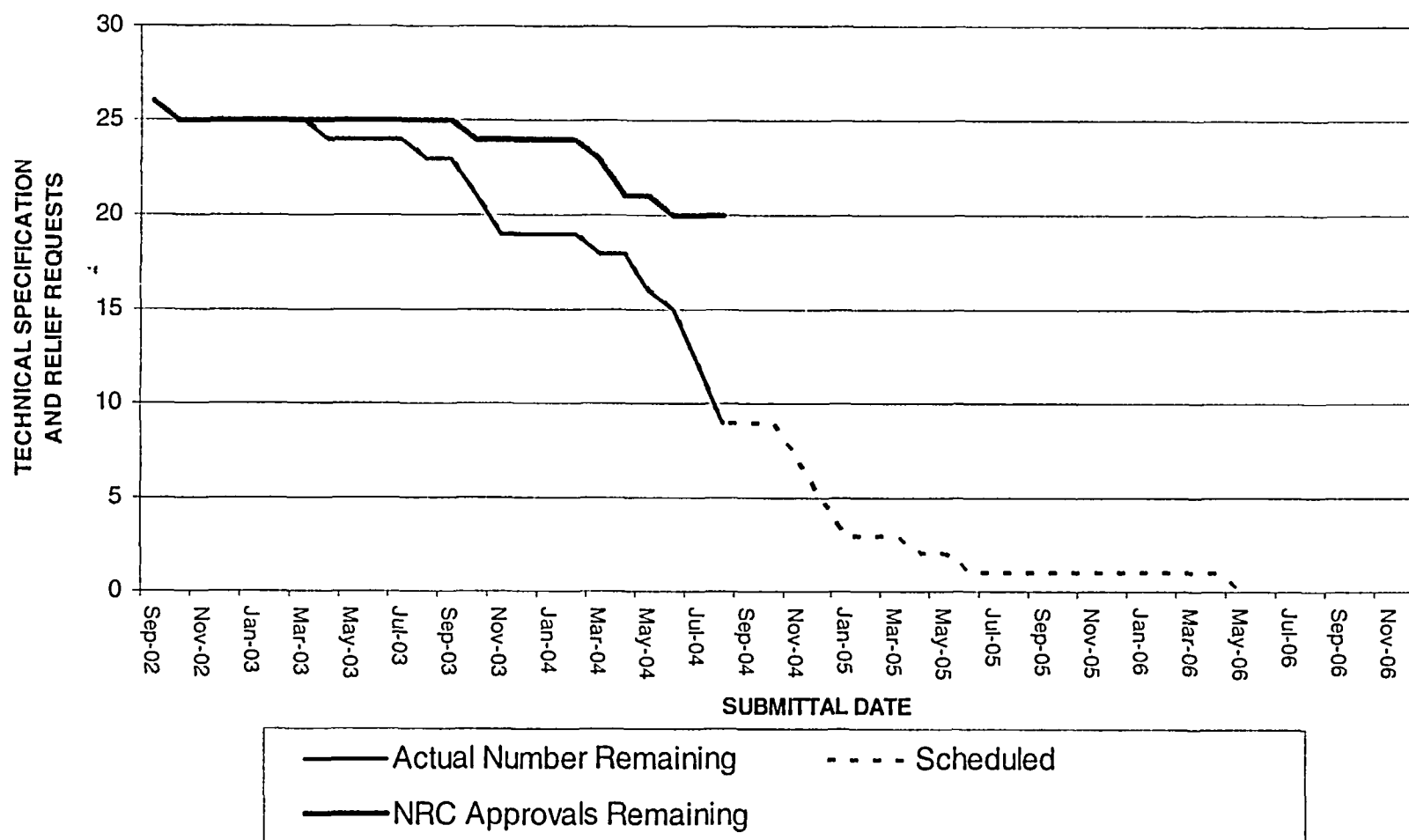
Regulatory Status



- Unit 1 License Amendments
 - 20 amendments identified
 - 17 of the 20 have or will have been previously submitted and/or approved on Units 2 and 3
 - 12 submitted to date
 - Includes Extended Power Uprate – submitted June 28, 2004
 - 1 approved by NRC
- Relief Requests
 - 5 relief requests submitted
 - 4 approved by NRC
 - Risk informed ISI to be submitted
 - Other relief requests may be identified as a result of inspections
- BFN License Renewal Application
 - Submitted December 31, 2003

Regulatory Status

Status of Technical Specifications and Relief Requests



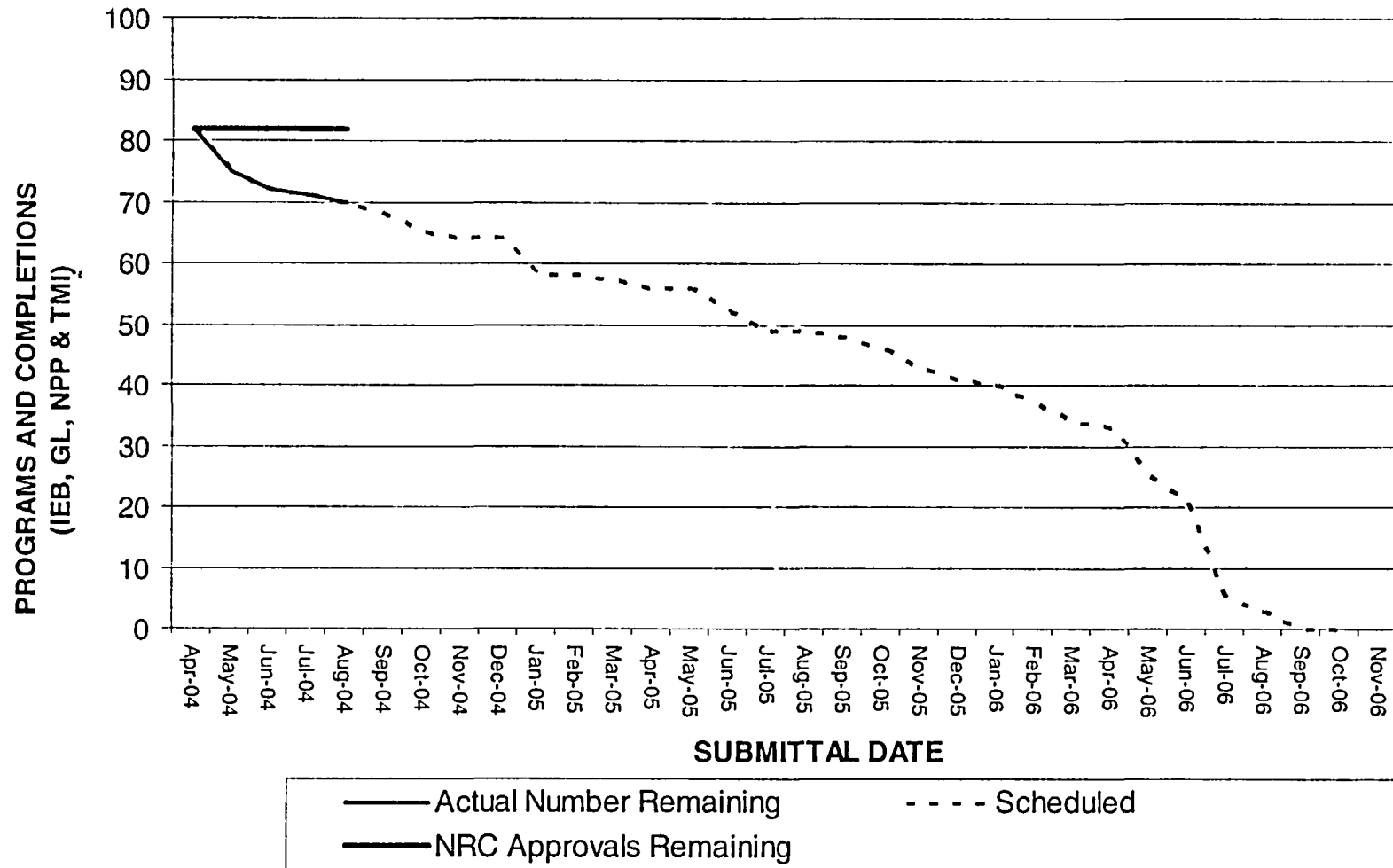
Regulatory Status

- Other Unit 1 Submittals
 - 82 programmatic and completion submittals identified
 - From overall Regulatory Framework
 - Submitted December 2002
 - Approved August 2003
 - Agreed to notify NRC upon the completion of Bulletins, Generic Letters, TMI Action Plan Items, or Nuclear Performance Plan Special Programs
 - 12 submitted to date
 - None NRC approved

Regulatory Status



Status of Other Submittals



Unit 1 Overview and Schedule



- Project Schedule (Attached)
 - On schedule for start-up May 2007



Start Date
Finish Date
Date Date
Run Date

01APR02
15JUN07
25AUG04
25AUG04 07:16

TARGET 2 BAR
Early Bar
Progress Bar
Critical Activity

TVA BFN UNIT-1
MAJOR MILESTONES
REV 5

Time	Review
01APR02	ACC'D 100% POWER MILESTONE

Unit 1 Overview and Schedule



- Engineering
 - Current status
 - Design Change Notices issued
 - Overall 75 percent complete
 - Ongoing activities
 - Primarily in a field support role
 - Closures
 - Completing System Plant Acceptance Evaluations (SPAE) and System Pre-operability Checklists (SPOCs)
 - Extended Power Uprate Analyses
 - Steam dryer
 - Main steam lines
 - Vessel internals

Unit 1 Overview and Schedule



- Modifications and Maintenance Status
- Major Accomplishments
 - Replaced
 - Drywell structural steel
 - Core Spray piping
 - Reactor Pressure Vessel safe ends
 - Condenser tubes
 - Turbine cross-over and cross-under piping
 - Extraction Steam piping
 - Flow assisted corrosion susceptible piping (Carbon steel with chrome-moly)
 - RCIC turbine reassembly

Unit 1 Overview and Schedule



- Major Work In-progress
 - Cable tray, conduit and support installation
 - Large and small bore pipe replacement
 - Pipe hanger installation
 - Large pump and motor refurbishment
 - Torus coating
 - Control Room Design Review modifications
 - Turbine generator rewind
 - Main Bank transformers
- Challenges
 - Industrial safety
 - Welding

Unit 1 Overview and Schedule



- Status of Major Commodities

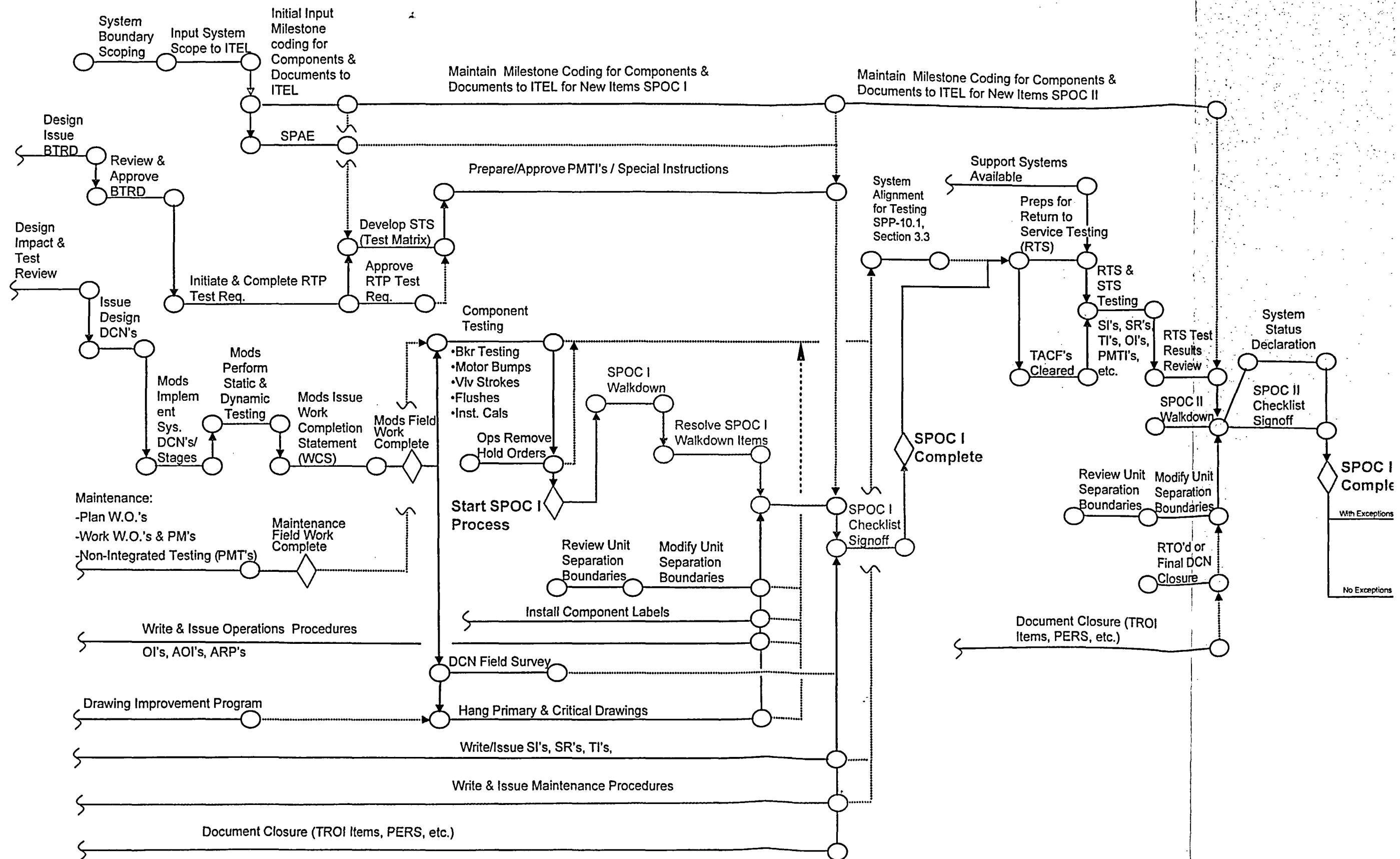
COMMODITY	INSTALLED	TOTAL
Piping - Large Bore	5, 948 feet	12,466 feet
Hangers - Large Bore	524	1,586
Piping - Small Bore	2,527 feet	24,177 feet
Hangers - Small Bore	755	5,461
Conduit	25,540 feet	152,187 feet
Conduit Supports	3,984	16,251
Cable Tray	7,695 feet	9,101 feet
Cable Tray Supports	1,310	1,430

Operations



- Access Control
 - Barriers
 - Personnel identification
 - Physical access accommodations
 - Training
 - Unit color codes
 - Unit 1 equipment required for Unit 2/3 operation identified
 - No trips or power reductions caused by Unit 1 work
- Work Control
 - Comprised of qualified and site experienced personnel
 - Coordination with operating units Work Control and Operation
- Completing System Pre-operability Checklists (SPOCs)
 - Process flow chart attached

SYSTEM RETURN TO SERVICE - SPOC I & II PROCESS



Operations

- Preparing for Baseline, Restart and Power Ascension Test Programs
- Operations Department
 - Staffing / training to support three unit operations
 - Adding a second simulator
- Dose Reduction Activities
 - Decontaminated Drywell, Reactor and Turbine Buildings
 - Gamma scan to identify and system flushing to reduce hot spots
 - Replacement of CRD and low pressure turbine blades and 77 other components containing stellite
 - Electro-polish and chrome plate 17 valves and 2 RWCU pumps
 - Electro-polish and pre-oxidize Recirc. and RWCU piping and RWCU regenerative heat exchangers

Nuclear Assurance



- Shift in Emphasis
 - Established and filled a new QA Manager position
 - Increased QC staffing, including Level III technical support
 - Established QC Level III oversight support
 - QA staffing and skill set strengthened
 - Dedicated resources to corrective action program oversight

- Reinforced Expectations and Strengthened Approach
 - Quality Assurance
 - Quality Control

Nuclear Assurance



- Focus Areas
 - Nuclear Performance Plan Special Programs (DBVP, seismic issues, electrical issues, etc.)
 - Vendor performance / source surveillance
 - Modification / Construction field activities
 - SPAE / SPOC

Open Discussion

